Conserving Heat Energy

Which material will keep the heat in? This is an insulator.

Which material will allow the heat to escape? This is a conductor.

You need to figure out which materials are the insulators: newspaper, wool, plastic, tin foil, or nothing at all (the control).

You will work as a group of 5 students.

You have 5 bottles. Measure the temperature of all 5 and record it quickly. After you measure the temperature of one bottle, cover it with a material. When you come to the 5th bottle, do not cover it (this is the control).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| material | Start temperature | After 10 minutes | After 20 minutes | Change in temperature |
| newspaper |  |  |  |  |
| wool |  |  |  |  |
| plastic |  |  |  |  |
| Tin foil |  |  |  |  |
| control |  |  |  |  |

Which material kept the heat in and didn’t allow the heat energy to escape? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_This is a great conductor!